

# UNITED STATE DEPARTMENT OF COMMERCE / Patent and Trademark Office /

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Washington, D.C. 20231

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. T 141.009 **PEASE** 09/649,692 08/28/00 **EXAMINER** PM82/0830 ANDREW J NILLES HORTON, Y **ART UNIT** PAPER NUMBER NILLES & NILLES SC FIRSTAR CENTER SUITE 2000 3635 777 EAST WISCONSIN AVENUE MILWAUKEE WI 53202-5345 **DATE MAILED:** 08/30/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

### Office Action Summary

Application No. 09/649,692

Applicant(s)

**TYLER E. PEASE** 

Examiner

YVONNE M. HORTON

Art Unit **3635** 



			<u> </u>	1	
	The MAILING DATE of this communication appears	on the cover sh	eet with ti	he corres	
A SHO THE N - Exten aft - If the be - If NO co - Failur - Any r	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION. Is sions of time may be available under the provisions of 37 Clear SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) days considered timely.  period for reply is specified above, the maximum statutory is mmunication.  e to reply within the set or extended period for reply will, by reply received by the Office later than three months after the right patent term adjustment. See 37 CFR 1.704(b).	FR 1.136 (a). In relation.  is, a reply within the period will apply a restaute, cause the statute, cause the statute.	no event, h ne statutory and will exp ne applicati	nowever, my minimum bire SIX (6	of thirty (30) days will  MONTHS from the mailing date of the mail
Status	mod patoni tomi dajpotmonti eco e e e e e e e e e e e e e e e e e e				
1) 💢	Responsive to communication(s) filed on Aug 28, 2	2000			·
2a) 🗌	This action is <b>FINAL</b> . 2b) 🔀 This act	tion is non-final			
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.				
Disposi	tion of Claims				
	Claim(s) <u>1-20</u>				•
4	la) Of the above, claim(s)			is/are	withdrawn from consideration.
5) 💢	Claim(s) <u>16-20</u>		· · · -	i	s/are allowed.
6) 💢	Claim(s) 1, 2, 6-8, 11, 12, 14, and 15			· i	s/are rejected.
7) 🗶	Claim(s) 3-5, 9, 10, and 13			i	s/are objected to.
8) 🗆	Claims	are	subject 1	to restric	tion and/or election requirement.
Applica	tion Papers				
9) 🗆	The specification is objected to by the Examiner.				
10)□	The drawing(s) filed on is/are	e objected to by	the Exam	miner.	
11)	The proposed drawing correction filed on	is:	:a)□ ap	proved	b) $\square$ disapproved.
12)	The oath or declaration is objected to by the Exam	iner.			
13) ☐ a) ☐	under 35 U.S.C. § 119  Acknowledgement is made of a claim for foreign p  All b) Some* c) None of:  1. Certified copies of the priority documents have  2. Certified copies of the priority documents have	ve been receive	ed.	,	
	3. Copies of the certified copies of the priority depolication from the International Bure ee the attached detailed Office action for a list of the	iocuments have eau (PCT Rule 1	e been red 17.2(a)).	ceived in	
14)	Acknowledgement is made of a claim for domestic				e).
Attachm	eent(s)				•
	otice of References Cited (PTO-892)	18) Interview S	ummary (PTC	)-413) Paper	No(s)
, ,	otice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of In	formal Patent	Application	(PTO-152)
17) 💢 In	nformation Disclosure Statement(s) (PTO-1449) Paper No(s)3	20) Other:			

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#### **DETAILED ACTION**

#### **Drawings**

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because fail to not include *any* of the reference sign(s) mentioned in the description. Correction is required.

#### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent #5,638,651 to FORD. FORD discloses an insulated wall panel (10) including a foam sheet (15) having first and second planar sides (unlabeled) and grooves (26), first and second reinforcing strips (24) received in respective grooves (26), and first and second reinforcing layers (12). Regarding claim, FORD also discloses two downwardly extending flanges (F), see the marked-up attachment.
- 4. Claims 11 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent #5,638,651 to FORD. The structure of FORD inherently discloses the method of manufacturing an insulated panel including the steps of creating a foam block (15); cutting the block; inserting

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reinforcing strips (24), covering the strips (24) with a reinforcing layer (12); and bonding the first reinforcing layer (12) to the foam sheets (15). And regarding claim 12, bonding a second reinforcing layer (12).

#### Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent #5,638,651 to FORD. FORD discloses the basic claimed panel except for explicitly disclosing bonding the reinforcing layer to define a vapor barber and the tensile strength of the reinforcing layers. Although FORD is silent with respect to forming a vapor barrier, it is obvious from the materials used in FORD (i.e. foam and steel) that the steel material offer a vapor barrier to the

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porous farm material. Regarding the strength of the reinforcing layer, FORD, col 3 line 49 requires a high tensile strength material. The selection of a known material on the basis of its suitability for the use intended is an obvious matter of design choice.

8. Claims 14 and 15 rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent #5,638,651 to FORD. FORD discloses the basic claimed method except for the steps of applying adhesive and rolling the reinforcing layers. Although FORD does not disclose the use of and adhesive, it would have been obvious to one having ordinary skill in the art to provide the panel of FORD with adhesive in order to provide the panel and its exterior face with additional reinforcement in ensuring the facings are maintained properly against the foam sheet.

#### Allowable Subject Matter

- 9. Claim 3-5,9-10,13 and 16-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yvonne M. Horton whose telephone number is (703) 308-1909.

Kydrife M. Hortor Patent Examiner

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August 25, 2001



## United States Patent [19]

Ford

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[11] Patent Number:

5,638,651

[45] Date of Patent:

Jun. 17, 1997.

		<del></del> -	
[54]	INTERL SYSTEM	OCKING PANEL BUILDING	
[76]	Inventor:	Vern M. Ford, 6287 N. 25 E., Ida Falls, Id. 83401	aho
[21]	Appl. No.	668,238	
[22]	Filed:	Jun. 21, 1996	
	Re	ated U.S. Application Data	
[63]	Continuation abandoned.	n-in-part of Ser. No. 295,598, Aug. 25	, 1994,
[51]	Int. Cl.6	E04C 2/30; E04C	2/292
		<b> 52/309.7</b> ; 52/90.1; 5	
		2/269; 52/271; 52/284; 52/293.3; 5	
		52/309.9; 52/794.1; 52/8	300.12
[58]	Field of S	earch 52/90.1	, 92.1,
		52/93.2, 262, 264, 265, 267, 269	), 271,
	274,	284, 293.3, 309.7, 309.9, 309.11, 3	09.16,
		592.1, 592.3, 656.4, 794.1, 800.1, 8	00.11,
		800.12, 801.1, 802.1, 276, 27	7, 279
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Primary Examiner—Carl D. Friedman
Assistant Examiner—Kevin D. Wilkens
Attorney, Agent, or Firm—Hopkins Roden Crockett Hansen
& Hoopes, PLLC

**ABSTRACT** 

#### 571

This invention discloses to an interlocking insulated panel building system that has expanded polystyrene panels sandwiched between inner and outer oriented strand board (OSB) skins. Structural strength is enhanced and thermal shorts are reduced by use of channels formed from typically 22 gauge (0.03") galvanized steel. The panels are interfitted by a tongue-and-groove system. The components of the system are wall panels, headers, sills, beams, and roof panels.

15 Claims, 8 Drawing Sheets

